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A CATALOGUE OF THE SPECIES OF THE GENUS LOMAPTERA (COLEOPTERA, CETONIIDAE) IN THE LEIDEN AND AMSTERDAM MUSEA

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With 21 figures

After Mr. F. T. Valck Lucassen's decease in september 1939 his collections have been transported to the Leiden Museum for better preservation. In 1941 the Rijksmuseum van Natuurlijke Historie, Leiden, could acquire these considerable collections which also included those of Janson (London) and Girard (Geneva). These collections contain a great number of species, often represented by the types or series of types, many of which described by Valck Lucassen himself.

In an obituary Uyttenboogaart (1940: 1-2) gave an enumeration of all papers by Valck Lucassen, most of which are on Cetoniids. The monograph on the genus *Lomaptera*, announced by Uyttenboogaart, had to be translated, illustrated and to be made ready for printing; it was published in 1961 by the Netherlands Entomological Society (Valck Lucassen, 1961). It is based for the greater part on specimens in Valck Lucassen's own collection, and other material from various collections in the world which was amiably lent to the author for study.

In the present paper I intend to give an enumeration of the full material now present in the Leiden and Amsterdam musea, with additional notes and descriptions of species new or insufficiently known.

Unfortunately some misprints occur in the monograph which cause difficulties when using the identification tables. I give corrections in this catalogue. In this catalogue (V.L.) stands for: ex collection Valck Lucassen; (N.A.M.) for: ex collection Natura Artis Magistra. For the localities, which in many cases are not to be found on current atlases, I may refer to the

map I added to Valck Lucassen's monograph, in which I tried to bring together all necessary data from expedition-reports, etc. A number of localities mentioned in this paper are not found on the map in Valck Lucassen's monograph. More information on localities is found in Le Roux (1950) and Boeseman (1963). Where necessary I shall give additional notes. The sequence of the species and the numbering of the groups used here is in accordance with the monograph, the list being found on pages 275 and 277.

Lomaptera Gory & Percheron
Subgenus **Melanoptera** Schürhoff

a. Species-group of *L. albertisii* Gestro.

Lomaptera (Melanoptera) albertisii Gestro. Leiden Museum. — New Guinea: 1 ♀ (paratype of *L. pseudalbertisi* Schürhoff) (V.L.); 1 ♂, Mts. Arfak (V.L.); 1 ♂ and 5 ♀, Doreh (V.L.); 1 ♂, loc. unknown.

Zoöl. Museum Amsterdam. — New Guinea: 1 ♂, Doreh, 1881, van Lansberge don. (N.A.M.).

Lomaptera (Melanoptera) albertisii Gestro var. *fuscipennis* Kirsch. Leiden Museum. — New Guinea: 1 ♀, Hatam, leg. L. M. D'Albertis (V.L.); 1 ♂ and 1 ♀, Hatam (V.L.).

Valck Lucassen (1961: 40) considered specimens with light brown elytra to represent the var. *fuscipennis* Kirsch (not Kriesche, as erroneously written in the monograph). The colour can best be defined as light cinnamon brown. The colour of all other specimens of *albertisii* is of a very dark chestnut brown.

Lomaptera (Melanoptera) gestroi Valck Lucassen. Leiden Museum. — New Guinea: 1 ♂ (paratype), Hatam, leg. L. M. D'Albertis (V.L.).

Lomaptera (Melanoptera) signaticollis Valck Lucassen. Leiden Museum. — New Guinea: 1 ♀ (paratype), Dorey (V.L.); 1 ♀, Wasior Mts., Geelvink Bay, ii.1962, leg. A. W. Schram.

Lomaptera (Melanoptera) eximia Schürhoff. Leiden Museum. — New Guinea: 4 ♂ and 10 ♀, Fakfak (V.L.); 1 ♂, Momi valley (V.L.).

Lomaptera (Melanoptera) eximia Schürhoff var. *fakfakensis* Schürhoff. Leiden Museum. — New Guinea: 1 ♂ (holotype) and 1 ♀ (allotype), 1 ♂ and 2 ♀ (paratypes), Fakfak (V.L.); 3 ♀ (paratypes), Fakfak, 1700 ft., leg. A. E. Pratt, iii-iv.1908 (V.L.); 1 ♀ (paratype), Fakfak, leg. A. E. Pratt, 1908 (V.L.).

Lomaptera (Melanoptera) momiana Valck Lucassen. Leiden Museum. — New Guinea: 1 ♂ (holotype) and 1 ♀ (allotype), Momi valley, Centr. Arfak Mts., leg. A. E. Pratt, 1904 (V.L.).

Lomaptera (Melanoptera) meridionalis Valck Lucassen. Leiden Museum. — New Guinea: 4 ♀ (holotype and 3 paratypes), Otakwa riv., Snow Mts., 3500 ft., x-xi.1910, leg. A. S. Meek (V.L.).

Lomaptera (Melanoptera) wahnesi Moser. Leiden Museum. — New Guinea: 1 ♂, Dutch New Guinea (V.L.); 1 ♀, Territory of Papua; 1 ♂, Terr. of N. Guinea, Sattelberg (ex coll. Dr. H. J. Veth); 1 ♀, Terr. of N. Guinea, Sattelberg, xii.1909-ii.1910, leg. Von Wiedenfeld (ex coll. Dixon); 1 ♀, leg. Nonfried (ex coll. Dixon); 1 ♂, exact loc. unknown (ex coll. H. van der Vaart); 1 ♀, exact loc. unknown, leg. K. Schmidt (V.L.); Terr. of New Guinea: 2 ♀, Wamoro Mts., 750 m (V.L.); 1 ♀, Mt Bolan (V.L.); 1 ♂ and 3 ♀, Finschhafen (V.L.); 1 ♀, Herbertshöhe (V.L.); 1 ♂ and 4 ♀, Sattelberg (V.L.); 2 ♀, exact loc. unknown (V.L.); Terr. of Papua: 1 ♀, exact loc. unknown (ex coll. Dresden); 2 ♀, Sattelberg, leg. Wahnes, Franklin, Müller (V.L.); 1 ♂ and 1 ♀, Finschhafen (in coll. van Roon); 1 ♀, Terr. of New Guinea (in coll. van Roon).

Zool. Museum Amsterdam. — New Guinea: 1 ♀, Terr. of New Guinea, Sattelberg, 950 m, xii.1909-ii.1910, leg. Von Wiedenfeld (ex. coll. Drescher); 1 ♂, S.-N. Guinea.

Lomaptera (Melanoptera) wahnesi Moser var. *torricelliana* Heller. Leiden Museum. — New Guinea: 1 ♀ (cotype), Terr. of New Guinea, Torricelli Mts., leg. Dr. O. Schlaginhaufen (V.L.).

Lomaptera (Melanoptera) wahnesi Moser var. *augusta* Schürhoff. Leiden Museum. — New Guinea: 1 ♀ (paratype), Terr. of New Guinea, "Etappenberg", 28.x.1912, leg. Lodermann & Bürgers, "Kaiserin Augusta Fluss Expedition" (V.L.); Dutch New Guinea: 2 ♀, Araucaria-camp, Idenburgriv., 23.iii.1939, leg. L. J. Toxopeus (Ned.-Ind. Am. N. Guinea Exped.).

Lomaptera (Melanoptera) pulchra Janson. Leiden Museum. — New Guinea: 1 ♀ (paratype), Cyclop Mts., 1800 m, viii-ix.'28, leg. E. Mayr (V.L.).

Lomaptera (Melanoptera) schuerhoffi Valck Lucassen. Leiden Museum. — New Guinea: 1 ♀, Cyclop Mts., 4-900 m, vi.1938, leg. L. J. Toxopeus (Ned.-Ind. Am. N. Guinea Exped.).

Lomaptera (Melanoptera) annae Heller. Leiden Museum. — New Guinea: Terr. of Papua: 5 ♂ and 5 ♀, Babooni, Mafulu, 3600', leg. A. E. Pratt, 1903 (V.L.); 1 ♂ and 2 ♀, Aroa riv., leg. A. S. Meek (V.L.); 2 ♀, Mt Victoria, leg. A. S. Anthony (V.L.); 2 ♀, Owgarra, leg. A. S. Meek (V.L.).

Lomaptera (Melanoptera) pseudannae Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 2 ♂ and 2 ♀, Bolan Mts.; 1 ♀, Finschhafen; 1 ♀, Huon Gulf; 1 ♀, Wareo, Finschhafen; 1 ♀, Agolole, 1400 m; 1 ♀, exact loc. unknown. (all specimens V.L.).

Zoöl. Museum Amsterdam. — New Guinea: Terr. of New Guinea: 1 ♀, Finschhafen (ex coll. A. J. Buis); 1 ♀, Finschhafen.

Lomaptera (Melanoptera) bolanensis Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♀ (cotype), Finschhafen (V.L.).

Lomaptera (Melanoptera) fluminensis Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♀ (paratype), April riv. (V.L.).

b. Species-group of *L. cinnamomea* J. Thomson.

Lomaptera (Melanoptera) cinnamomea J. Thomson. Leiden Museum. — ? New Guinea: 1 ♂ and 1 ♀, leg. Alex. Heyne. Australia: North Australia, 4 ♂ and 2 ♀ (V.L.); W. Australia, 1 ♀ (V.L.); S. W. Australia, 1 ♂ (V.L.); Victoria, 1 ♂ and 1 ♀, Dandemong (V.L.); Queensland: 1 ♀, Launceston (V.L.); 1 ♂ and 1 ♀, Cape York (V.L.); 1 ♂, Bloomfield riv. (V.L.); 2 ♂, Freshwater Bay, Cairns (V.L.); 1 ♀, Cairns (V.L.); 2 ♂ and 2 ♀, exact loc. unknown (V.L.); 1 ♀, Queensland, exact loc. unknown (in coll. van Roon).

Lomaptera (Melanoptera) hackeri Lea. Leiden Museum. — Australia: N. Queensland: 1 ♂, Coen riv., leg. D. Dodd (V.L.); 2 ♂, Cooktown (V.L.).

Lomaptera (Melanoptera) diaphonia Kraatz. Leiden Museum. — New Guinea: 1 ♀, exact loc. unknown (V.L.); Terr. of Papua: 3 ♀, Goldie riv. (V.L.). Australia: 2 ♀, Queensland, leg. C. French.

Lomaptera (Melanoptera) mutabilis Moser. Zoöl. Museum Amsterdam. — Bougainville Isl.: 1 ♀, leg C. Wahnes, Franklin, Müller.

Lomaptera (Melanoptera) mutabilis Moser var. *rufipes* Moser. Leiden Museum. — New Britain: 2 ♀, Talesea, ii-iii.1925, leg. A. F. Eichhorn (V.L.).

Lomaptera (Melanoptera) vittata Moser. Leiden Museum. — New Ireland: 1 ♂ and 5 ♀, xi.1923-iii.1924, leg. A. F. Eichhorn (V.L.); 1 ♀ (V.L.).

c. Species-group of *L. satanas* Heller.

Lomaptera (Melanoptera) satanas Heller. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂, Mt Victoria, leg. A. S. Anthony (V.L.); 3 ♂ and 2 ♀, Babooni, 3600' (V.L.); 2 ♂ and 2 ♀, Owgarra, Angabunga riv., leg. A. S. Meek (V.L.); 1 ♂, Owgarra, leg. A. S. Meek (V.L.); 3 ♂ and 2 ♀, Upper Aroa riv., leg. A. S. Meek (V.L.); 1 ♀, Aroa riv., leg. A. S. Meek (V.L.); 1 ♀, Haldana, Collingwood Bay, leg. A. S. Meek, iv.1907 (V.L.).

Lomaptera (Melanoptera) bicolorata Moser (syn.: *L. satanas* Heller var. *minor* Schürhoff in lit.). Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♂, Komba distr., Finisterre Mts. (labelled: *L. minor* Schürh., paratype) (V.L.); 2 ♀, same locality (V.L.); 1 ♂ and 1 ♀, Wareo (labelled: *minor* Schürh.); 2 ♀, Komba distr. (V.L.); 1 ♂ and 2 ♀, Mt Bolan (V.L.);

1 ♂ and 1 ♀, Sattelberg, leg. Rev. L. Wagner (V.L.); 1 ♂, Sigi camp (Idenburgriv.), 1300 m, 23.ii.1939, leg. L. J. Toxopeus (Ned.-Ind. Am. N. Guinea Exped.).

Lomaptera (Melanoptera) bicolorata Moser var. *luteofemorata* Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 2 ♂, Wareo; 1 ♂, Komba, leg. Rev. L. Wagner (V.L.).

Lomaptera (Melanoptera) bicolorata Moser var. *nigricollis* Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 2 ♂, Wareo; 2 ♀, Komba distr., Finisterre Mts. (V.L.); 1 ♀, Komba distr., leg. Rev. L. Wagner (V.L.); ♀, Sattelberg (V.L.); 1 ♀, Mt Bolan (V.L.).

Lomaptera (Melanoptera) bicolorata Moser var. *nigra* Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♂ and 1 ♀, Wareo; 1 ♂ and 1 ♀, Komba distr., Finisterre Mts. (V.L.); 1 ♀, Komba distr., leg. Rev. L. Wagner (V.L.); 1 ♂, Madang-Eitape, leg. J. F. W. Schultz (V.L.).

Lomaptera (Melanoptera) vanheurni Valck Lucassen. Leiden Museum. — New Guinea: 2 ♀ (holotype and paratype), Doorman-path camp, 1410 m, x.1920, leg. W. C. van Heurn (Dutch N. Guin. Exp.).

d. Species-group of *L. semicastanea* Kraatz.

Lomaptera semicastanea Kraatz. Leiden Museum. — Aru Is.: 2 ♀ (paratypes), Ureiuning, leg. C. Ribbe, 1884 (V.L.).

Lomaptera (Melanoptera) pseudorufa Heller. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀, Owgarra, leg. A. S. Meek (V.L.); 2 ♀, Mt Victoria (V.L.); 1 ♂, Aroa riv. (V.L.); 1 ♀, Haldana, Collingwood bay, leg. A. S. Meek (V.L.); 1 ♀, Babooni, leg. A. E. Pratt (V.L.).

Lomaptera (Melanoptera) pseudorufa Heller var. *signata* Janson. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ (holotype), Babooni, Mafulu, leg. A. E. Pratt (V.L.).

Lomaptera (Melanoptera) pseudorufa Heller var. *rufipennis* Janson. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀ (holotype and allotype), Babooni, Mafulu, leg. A. E. Pratt (V.L.).

Lomaptera (Melanoptera) pseudorufa Heller var. *unicolor* Janson. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 2 ♀ (holotype, allotype and paratype), Babooni, 3600 ft., leg. A. E. Pratt (V.L.).

Lomaptera (Melanoptera) pseudorufa Heller var. *plagiata* Janson. Leiden Museum. — New Guinea: Terr. of Papua: 2 ♂ and 1 ♀ (holotype, paratype and allotype respectively), Babooni, 3600 ft., leg. A. E. Pratt (V.L.).

e. Species-group of *L. iridescens* Heller.

Lomaptera (Melanoptera) iridescens Heller. Leiden Museum. — New Guinea: 1 ♀, no exact loc. (ex coll. Dr. H. J. Veth); 1 ♀, leg. Nonfried,

exact loc. unknown (V.L.); Dutch New Guinea: 2 ♂ and 3 ♀, exact loc. unknown (V.L.); Terr. of New Guinea: 2 ♀, Sattelberg, leg. H. Rolle (V.L.); 1 ♀, Sattelberg (ex coll. C. Dixon); 3 ♂ and 6 ♀, Sattelberg (V.L.); 5 ♀, Sattelberg, leg. Wahnes, Franklin, Müller (V.L.); 4 ♀, Wamoro Mts. (V.L.); 1 ♀, Wamoro Mts., 750' (V.L.); 1 ♀, Stephansort (V.L.); 2 ♀, Sattelberg, ? leg. Wahnes (V.L.); 1 ♀, Humboldt Bay (V.L.); 1 ♂ and 1 ♀, Finschhafen (V.L.); 3 ♀, Wareo (V.L.); 1 ♂ and 3 ♀, Mt Bolan (V.L.); 1 ♀ Finschhafen (in coll. van Roon); 1 ♀, Sattelberg (in coll. van Roon); 2 ♀, N. Guinea (in coll. van Roon).

Zoöl. Museum Amsterdam. — New Guinea: Terr. of New Guinea: 1 ♀, Sattelberg; 2 ♀, N. Guin.

Generally the specimens of *L. iridescent* have the elytra for the greater part reddish ochraceous. In Valck Lucassen's collection, however, there are 1 ♂ and 6 ♀ (1 ♂ and 2 ♀, Sattelberg; 1 ♀, Wareo; 1 ♀, Mt Bolan; 1 ♀, Wamoro Mts.; 1 ♀, Dutch N. Guinea), as well as 4 specimens in Van Roon's collection (Leiden Museum), which are black all over, except for red legs and/or some red spots on the pygidium, the breast, and the legs.

Lomaptera (Melanoptera) iridescent Heller var. *nigra* Valck Lucassen (syn.: *nigra* Heller in lit.) (Valck Lucassen, 1961: 75, note 39). Leiden Museum. — New Guinea: Terr. of Papua: 1 ♀ (labelled by Heller: cotype); Terr. of New Guinea: 1 ♀ (cotype); 1 ♀, Sattelberg (ex coll. Dr. H. J. Veth); 1 ♂ and 3 ♀, Sattelberg (V.L.); 1 ♀, N. Guinea (V.L.); 3 ♀, Sattelberg, leg. Wahnes, Franklin, Müller (V.L.); 1 ♂, Wareo (V.L.); Neth. N. Guinea: 1 ♂ and 1 ♀ (V.L.).

I am in doubt about the locality of these last two specimens though the labels seem to be genuine.

Lomaptera (Melanoptera) hydrographica Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 4 ♂ (holotype and paratypes), Hydrographer Mts., 2500 ft., ii-iii.1918, leg. Eichhorn Bros. (V.L.).

Lomaptera (Melanoptera) negata Heller. Leiden Museum. — NW New Guinea: 2 ♀, Doreh (V.L.); 1 ♀, Hatam, leg. L. M. D'Albertis (V.L.).

Lomaptera (Melanoptera) orientalis Valck Lucassen. Leiden Museum. — Goodenough Isl.: 2 ♂ and 6 ♀ (holotype ♂, allotype and paratypes), 3000 ft., i-v.1913, leg. A. S. Meek (V.L.).

f. Species-group of *L. lutea* Janson.

Lomaptera (Melanoptera) lutea Janson. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ (holotype), Aroa riv., 1903, leg. A. S. Meek (V.L.); 1 ♀ (allotype), Babooni, 3600 ft., Mafulu, leg. E. A. Pratt (V.L.); 1 ♂ and 3 ♀, Aroa riv. (V.L.); 1 ♀, Upper Aroa riv. (V.L.); 2 ♂ and 4 ♀,

Babooni, 3600 ft., Mafulu, leg. E. A. Pratt (V.L.); 1 ♀, Owgarra, leg. A. S. Meek (V.L.).

Lomaptera (Melanoptera) vethi Moser. Leiden Museum. — New Guinea: Dutch New Guinea: 1 ♀, Mt Goliath (V.L.); 1 ♀, S-New Guinea (V.L.).

Lomaptera (Melanoptera) moseri Heller. Leiden Museum. — New Guinea: 1 ♀, Cyclop Mts., Camp 1800 m, viii-ix.1926, leg. E. Mayr (V.L.); 2 ♀, Cyclop Mts., 4900 m, vi.1938, leg. L. J. Toxopeus (Ned.-Ind. Am. N. Guinea Exped.).

Lomaptera (Melanoptera) striolata Valck Lucassen. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♀ (cotype), Mt Lord (V.L.).

Lomaptera (Melanoptera) nigropubesens Valck Lucassen. Leiden Museum. — New Guinea: Dutch New Guinea: 2 ♀ (cotypes), Otakwa riv., ix.1912-iii.1913, leg. A. F. R. Wollaston (V.L.).

g. Species-group of *L. limbata* Heller.

Lomaptera (Melanoptera) limbata Heller. Leiden Museum. — New Guinea 1 ♀ (labelled: "type" and "1916, det. Heller"); 2 ♀, New Guinea (V.L.).

The ♀ specimen with label "type" and "1916, det. Heller" cannot be a type as Heller described the species in 1895. As the exact locality is not known, even the possibility of a "topotype" is excluded.

Lomaptera (Melanoptera) pallens Heller var. *anthracicolor* Heller. Leiden Museum. — New Guinea: British New Guinea: 1 ♀, Morok, leg. A. S. Anthony (V.L.) (the specimen has been compared with the type).

h. Species-group of *L. rubens* Janson.

Lomaptera (Melanoptera) rubens Janson. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀ (holotype and allotype), Babooni, Mafulu, leg. A. E. Pratt (V.L.); 3 ♂ and 2 ♀, from same lot (V.L.); 1 ♂, Mt Victoria (V.L.); 2 ♀, Aroa riv., leg. A. S. Meek (V.L.).

Lomaptera (Melanoptera) simbangensis Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 5 ♂ and 4 ♀, Sattelberg (V.L.); 2 ♂ and 3 ♀, Wareo (V.L.); 1 ♂ Mt Bolan (V.L.); 1 ♂, DNG, leg. Wahnes, Franklin, Müller (V.L.); 1 ♀, Finschhafen (in coll. van Roon); 1 ♀, Sattelberg (in coll. van Roon).

Next to the above-mentioned specimens Valck Lucassen possessed 2 ♀ from the Territory of Papua (Hydrographer Mts., ii-iii.1918, leg. Eichhorn Bros.) which he separated in the collection as "*simbangensis* Schürhoff var.?", but which he did not describe as a separate form. I studied the specimens but I could not find differences with *simbangensis* except for

their somewhat larger size, more prolonged pygidium, and darker pubescence on the ventral surface of the head. These characters are not enough to separate them from *simbangensis* as a separate form.

Lomaptera (Melanoptera) tamiensis Valck Lucassen. Leiden Museum. — New Guinea: Dutch New Guinea: 6 ♂ and 2 ♀ (holotype, allotype and paratypes), Hollandia, Tami Riv., 1930, leg. R. Voorhoeve (paratypes) (V.L.).

Zoöl. Museum Amsterdam. — Same locality, 1 ♂ and 1 ♀ (paratypes), same series.

Lomaptera (Melanoptera) occidentalis Valck Lucassen. Leiden Museum. — New Guinea: Dutch New Guinea: 1 ♀ (holotype), Fakfak, 1700 ft., leg. A. E. Pratt (V.L.).

Lomaptera (Melanoptera) kalasana Valck Lucassen. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♂ and 1 ♀ (holotype and allotype), Kalasa (V.L.).

Lomaptera (Melanoptera) punctata Montrouzier. Leiden Museum. — Woodlark Isl.: 1 ♀ (holotype), leg. A. Fauvel; 3 ♂ and 1 ♀ (V.L.).

Lomaptera (Melanoptera) meeki Valck Lucassen. Leiden Museum. — Goodenough Isl.: 1 ♂ (holotype), 5000', i-iii.1913 (V.L.).

Lomaptera (Melanoptera) rufa Kraatz. Leiden Museum. — New Guinea: Terr. of Papua: 2 ♂ and 2 ♀, Milne Bay (V.L.); 1 ♂, Goldie riv. (V.L.).

Lomaptera (Melanoptera) rufa Kraatz var. *bidentata* Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♀ (holotype), Milne Bay (V.L.).

Lomaptera (Melanoptera) rufa Kraatz var. *pallida* Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ (holotype), N. Division, Mt Lamington, leg. C. T. MacNamara (V.L.); 1 ♀ (allotype), Hydrographer Mts., 2500', ii-iii.1918, leg. Eichhorn Bros. (V.L.).

i. Species-group of *L. sordida* Schoch.

Lomaptera (Melanoptera) sordida Schoch. Leiden Museum. — New Guinea: Dutch New Guinea: 1 ♀, Snow Mts., 3000 m (V.L.); 1 ♀, Dorey (V.L.); 1 ♀, Fakfak, 1700', iii-iv.1908, leg. A. E. Pratt (V.L.); 1 ♀, Fakfak, leg. A. E. Pratt (V.L.).

Lomaptera (Melanophora) sordida Schoch var. *limbifera* Heller. Leiden Museum. — New Guinea: Dutch New Guinea: 1 ♂ (cotype), Hatam (V.L.); 1 ♀, Arfak Mts. (V.L.).

Lomaptera (Melanoptera) sordida Schoch var. *alticola* Schürhoff. Leiden Museum. — New Guinea: Dutch New Guinea: 1 ♀ (cotype), Siwi, Arfak Mts., 800 m, leg. E. Mayr, iv-v.1928 (V.L.); 1 ♂ and 9 ♀, Fakfak (V.L.).

j. Species-group of *L. thoracica* Valck Lucassen.

Lomaptera (Melanoptera) thoracica Valck Lucassen. Leiden Museum. — New Guinea: Dutch New Guinea: 1 ♀ (holotype), Dorey Bay, Mansinam Isl., leg. W. Doherty (V.L.); 3 ♀ (paratypes), Geelvink Bay, leg. Kettlewell (V.L.).

Concerning the paratypes I want to repeat my annotation on the locality in Valck Lucassen's monograph (1961: 116, note 41). The locality "Mansinam I., Dorey Harbour, leg. Doherty" is reliable. One of the paratypes, however, bears a label "Geelvink B." with au verso an annotation by O. Janson that he bought the specimen from Mr. Whitely as originating from "Celebes". Janson did not believe this to be true and altered the label. The third is labelled "Geelvinkbay" and au verso "Kettlewell. f. Dr. Guillemard".

Lomaptera (Melanoptera) rotundata Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ (holotype), Babooni, 3600', leg. A. E. Pratt (V.L.).

Subgenus **Lomaptera** Gory & Percheron

When recently using Valck Lucassen's monograph for identification of new material from New Guinea and the adjacent isles I noticed that some misprints escaped our attention. In the keys some forms are mentioned as new species whereas in the descriptions we find that they are considered variations, etc. In those cases the descriptions are decisive. In the key to the females of the subgenus *Lomaptera*, however, there are some inconvenient errors, viz.:

page 27, line 4: for 35 read 34.

page 29, line 13 from the bottom read: "Élytres normaux entre les épaules et les bords latéraux" etc.

page 30, line 3 from the bottom: for 63 read 56.

a. Species-group of *L. papua* Guérin.

Lomaptera (Lomaptera) papua Guérin. Leiden Museum. — New Guinea: Dutch New Guinea: 1 ♂, Amberbaki; 1 ♂, Amberbaki (V.L.); 2 ♀, Andai (V.L.); 2 ♀, Fakfak, NW-New Guinea (V.L.); 1 ♂ and 2 ♀, Fakfak, 1700', leg. A. E. Pratt (V.L.); 1 ♂, Waigeoe (V.L.); Terr. of Papua: 1 ♂, Mt Owgarra, leg. A. S. Meek (V.L.).

Lomaptera (Lomaptera) papua Guérin var. *roonensis* Valck Lucassen. Leiden Museum. — New Guinea: Dutch New Guinea: 1 ♀ (holotype), Roon Isl., Geelvink Bay (V.L.).

Lomaptera (Lomaptera) papua Guérin var. *rufovirens* Valck Lucassen (figs. 10-11). Leiden Museum. — New Guinea: Dutch New Guinea: 1 ♂ and 1 ♀ (holotype and allotype), Fakfak (V.L.); 4 ♂ and 3 ♀ (paratypes),

Fakfak (V.L.); 5 ♀ (paratypes), Mt Sarayu, Arfak Mts., 3500', leg. A. E. Pratt (V.L.); Misool: 1 ♂, Fakal, 0-75 m, 8.ix-20.x.1948, leg. M. A. Lief tinck; Terr. of Papua: 2 ♂ and 3 ♀ (paratypes), Mt Owgarra, leg. A. S. Meek (V.L.).

Zoöl. Museum Amsterdam. — New Guinea: 1 ♀, 1881, leg. van Lansberge (N.A.M.); 1 ♂, Wendesi, iii.1903, leg. van Balen, Nw Guin. Exp. 1903 (N.A.M.); 1 ♀, W-New Guinea (ex coll. Leefmans).

Lomaptera (Lomaptera) fallax Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 4 ♂ and 3 ♀, Mt Bolan (V.L.); 3 ♂ and 6 ♀, Sattelberg (V.L.); 1 ♀, Bongu (V.L.); 3 ♀, Wareo (V.L.); 1 ♀ (DNG) (V.L.). Dutch New Guinea: 1 ♂, Pionerbivak, Mamberano, N. Guin. Exp. 1920, leg. W. C. van Heurn (V.L.). Exact loc. unknown: 1 ♀; 2 ♀ (V.L.).

One ♀ specimen from Mt Bolan shows a more glossy surface and the colour is of a somewhat brighter bluish green. A note on the label by Valck Lucassen runs in translation: "After Prof. de Beaux, Genova, the colour agrees with that of Gestro's type of *loriae*, but the pubescence is different".

Lomaptera (Lomaptera) inermis Wallace. Leiden Museum. — New Guinea: 1 ♀, Salawatti, leg. H. A. Bernstein.

This specimen has been compared with the type by Ritsema (label).

b 1. Species-group of *L. adelpha* J. Thomson.

Lomaptera (Lomaptera) adelpha J. Thomson. Leiden Museum. — Aru Islands: 1 ♀ (ex coll. Veth); 7 ♀, Ulammer, leg. D. L. Brand; 2 ♂ and 11 ♀, Ureiuning, leg. C. Ribbe, 1884 (V.L.); 3 ♀ (V.L.); 1 ♂ and 1 ♀, Wanumbai (V.L.); 1 ♂ genit. prep. Locality unknown: 1 ♀ (V.L.).

Zoöl. Museum Amsterdam. — Aru Islands: 1 ♂, (van Lansberge don.) (N.A.M.).

Lomaptera (Lomaptera) adelpha J. Thoms. var. *adusta* Kraatz. Leiden Museum. — Aru Is.: 1 ♂, leg. van Lansberge; 1 ♂, Wanumbai (V.L.); 1 ♂, Ureiuning (V.L.). New Guinea: SW-New Guinea: 1 ♀, Digoel riv., Min diptana, 26.ix.1958, leg. Br. Monulphus.

Though the species, and this variety, have been described from the Aru Is., the present specimen from the Digoel district which undoubtedly belongs to var. *adusta* Kraatz, gives new information on the distribution of the species. The locality is not so very strange as another variety of *L. adelpha*, var. *fulvicornis* Heller (first inserted in the keys as a definite species, but afterwards considered a variety of *adelpha*; Valck Lucassen, 1961: 35, and 131, respectively) also was recorded from the mainland, from the district NE of Redscar Bay at a great distance to the east. According to the saw-tooth shaped lateral borders of the hind coxae the specimen belongs to

L. adelpha, and the brown elytral tips and the brown pygidium indicate the var. *adusta* Kraatz. It distinctly differs from *fulvicornis* as it shows a more uniform metallic green or bronze green colour. The horns of the clypeus only show an orange colour, but with a metallic hue. In the specimen under consideration the horns of the clypeus are distinctly orange yellow, as well as the antennae, all tibiae and tarsi, except for a narrow black rim at the end of the tibiae and of all tarsal joints. The abdominal sternites show a narrow copper-coloured zone, anteriorly as well as posteriorly of the very thin red posterior borders. The anal segment too shows this colour. The pubescence is more or less yellowish white.

Until more is known I identify the specimen with var. *adusta* Kraatz.

Lomaptera (Lomaptera) adelpha J. Thomson var. *fulvicornis* Heller. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 3 ♀, Moroka, 1895, leg. E. S. Anthony (V.L.); 1 ♂ and 2 ♀, Babooni, 3600', leg. A. E. Pratt (V.L.); 1 ♀, Aroa riv., 1903, leg. A. E. Pratt (V.L.).

b 2. Species-group of *L. xanthopyga* Gestro.

Lomaptera (Lomaptera) xanthopyga Gestro (fig. 9). Leiden Museum. — New Guinea: Dutch New Guinea: 1 ♂ and 4 ♀, Hatam (Utr. Zendings Genootsch.); 1 ♀, Geelvink Bay, leg. A. Tadema; 1 ♂ and 1 ♀, Andai, leg. L. M. D'Albertis (V.L.); 1 ♂ and 1 ♀, ? Salawatti, leg. H. A. Bernstein (V.L.)¹.

The ♂ from Andai is from Janson's collection and is labelled: "cotype Gestro". The figured forceps (fig. 9) of the specimen from "?Salawatti" is almost conform with Valck Lucassen's fig. 39 (1961: 20).

Lomaptera (Lomaptera) pallidipes Kraatz. Leiden Museum. — New Guinea: 1 ♀, Waigeoe (label: comp. au type, V.L.) (V.L.).

Lomaptera (Lomaptera) etnae Schürhoff. Leiden Museum. — New Guinea: 1 ♀, Etna Bay, 1906, New Guin. Exp. (V.L.).

Zoöl. Museum Amsterdam. — New Guinea: 1 ♀, N-NG, between Mac Cluer Bay and Argoeni Bay, leg. Baggelaar (N.A.M.) (Moser det. 1923: *L. mycterothalloides* v. d. Poll, "Ex. mit grünen Schenkeln").

Lomaptera (Lomaptera) affinis Valck Lucassen. Leiden Museum. — New Guinea: 1 ♂ and 1 ♀ (holotype and allotype), Fakfak (V.L.); 10 ♂ and 9 ♀ (paratypes), Fakfak (V.L.); 1 ♂ (paratype), loc. unknown (V.L.); 2 ♀, Salawatti, leg. C. Bernstein; 2 ♀, Sekroe, leg. K. Schäder; 3 ♂, Fakfak, leg. C. L. J. Palmer & v. d. Broek; 3 ♀, Wendesi, Geelvink Bay, leg. A. E.

¹) Janson sent the label to Van de Poll to decipher, as indicated on a note, but the result is not present. However, Bernstein collected for some time on the isle of Salawatti. So this locality may be right.

Pratt, 1903 (see discussion, below); 2 ♀, Misool, 8.ix-20.x.1948, Fakal, 0-70 m, leg. M. A. Lieftinck; Terr. of Papua: 2 ♀, Owgarra, leg. A. S. Meek (V.L.).

Zool. Museum Amsterdam. — New Guinea: 1 ♂, Wendesi, 8.iii.1903, Ned. N-Guinea Exp. 1903 (v. Balen don.) (N.A.M.); 1 ♀, between MacCluer Bay and Argoeni Bay, leg. Baggelaar (N.A.M.) (Moser det. 1923: *L. mycterothalloides*).

First of all I want to mention a necessary correction on p. 137 (Valck Lucassen, 1961), line 18 from the bottom which should run: "le long du bord postérieur du cinquième segment. Antérieurement de cette marge il y a une striolation" etc.

Valck Lucassen mentioned the variability of *L. etnae* Schürhoff and of *L. affinis* Valck Lucassen, and noted their distribution over a much wider area than originally known. My recent studies of some specimens captured in 1948 on the western coast of the isle of Misool, NW of Fakfak, confirmed his ideas.

Especially the strong striolation on the pronotum in which *L. affinis* differs from *L. etnae*, made me decide to place the specimens from Misool with *L. affinis*, though there are some small differences e.g., in ventral view the central part of the female pygidium is slightly more conical. In lateral view the shape is identical. Our specimens show less reddish patches at the thorax. The legs are red with a green metallic hue on the femora.

In Valck Lucassen's collection there is one ♀ specimen differing from the series of paratypes by the almost smooth surface. Valck Lucassen already mentioned the three ♀ specimens from Wendesi, Geelvink Bay, leg. A. E. Pratt, 1903, which form more or less a transition towards *L. etnae* Schürhoff.

Lomaptera (Lomaptera) mimikana Valck Lucassen. Leiden Museum. — New Guinea: 1 ♂, Setakwa-Otakwa Exp. Oct. 1922, leg. C. Boden Kloss (V.L.); 1 ♀, Wollaston Exp. 1912-13, Mimika riv., leg. A. F. R. Wollaston (V.L.). Both specimens are paratypes.

Lomaptera (Lomaptera) densestriata Valck Lucassen. Leiden Museum. — New Guinea: 1 ♂ (paratype), Kloofbivak (near Lorentz riv.), 28.x.1912, leg. G. M. Versteeg (V.L.).

Zool. Mus. Amsterdam. — New Guinea: 1 ♂ (holotype), Kloofbivak (near Lorentz riv.), 10.x.1912, leg. G. M. Versteeg (N.A.M.).

b 3. Species-group of *L. darcisi* Heller.

Lomaptera (Lomaptera) darcisi Heller var. *kraatzi* Valck Lucassen. Leiden Museum. — New Guinea: 1 ♂ (holotype), exact loc. unknown (cf. Valck Lucassen, 1961: 142) (V.L.); Terr. of Papua: 1 ♀ (allotype), Goldie riv.,

leg. A. Goldie (V.L.); 2 ♂ and 2 ♀ (paratypes), Goldie riv., leg. A. Goldie (V.L.); 1 ♂ (paratype), Upper Aroa riv., leg. A. S. Meek (V.L.); 1 ♂ (paratype), Br. N. Guin., leg. C. Franklin (V.L.).

Lomaptera (Lomaptera) milnensis Valck Lucassen, Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀ (holotype and allotype), Milne Bay (V.L.); 2 ♂ and 4 ♀ (paratypes), Milne Bay (V.L.).

b 4. Species-group of *L. geelvinkiana* Gestro.

Lomaptera (Lomaptera) geelvinkiana Gestro. Leiden Museum. — New Guinea: NW-New Guinea: 1 ♀ (comp. type) (V.L.); 1 ♀, Doreh (comp. type) (V.L.); 1 ♀ (comp. type), Geelvink Bay (V.L.); 1 ♀, Manokwari (V.L.); 1 ♀, no exact locality (V.L.).

Lomaptera (Lomaptera) geelvinkiana Gestro var. *humboldtiana* Valck Lucassen. Leiden Museum. — New Guinea: 1 ♂ and 1 ♀ (holotype and allotype), and 1 ♂, 1 ♀ (paratypes), Tami riv., Hollandia, leg. R. Voorhoeve (V.L.); 1 ♂ and 1 ♀ (paratypes), Idenburg riv., xi.1920, Prauwenbivak, N. Guin. Exp., leg. W. C. van Heurn (V.L.); 6 ♀ (paratypes), Humboldt Bay, leg. W. Doherty (V.L.); 1 ♀, Japen, Ambaideru, 1953, leg. D. L. Leiher; 1 ♀, Hollandia, 2.xii.1954, 60 m, leg. L. D. Brongersma; 1 ♀, Bernhardkamp, vii-ix-1938, 50 m, leg. J. Olthof (Ned.-Ind. Am. N. Guinea Exped.); 1 ♂, Bernhard Camp, iv.1939, 100 m, leg. L. J. Toxopeus (Ned.-Ind. Am. N. Guinea Exped.).

Zool. Museum Amsterdam. — New Guinea: 4 ♀ (paratypes), Hollandia, Tami riv., 1930, R. Voorhoeve; 1 ♂, W.-New Guinea (ex coll. Leefmans).

Lomaptera (Lomaptera) soror Kraatz. Leiden Museum. — New Guinea: Terr. of New Guinea: 2 ♂ and 4 ♀ (ex coll. Dr. H. J. Veth); 1 ♂ and 1 ♀, Finschhafen; 4 ♂ and 14 ♀, Sattelberg (V.L.); 1 ♀, Sattelberg, leg. Rev. L. Wagner (V.L.); 1 ♂ and 1 ♀, Sattelberg, leg. Wahnes, Franklin, Müller (V.L.); 2 ♂ and 3 ♀, Sattelberg (from Hauser) (V.L.); 1 ♂ and 2 ♀, Wareo-Sattelberg (V.L.); 2 ♂ and 4 ♀, D. N. Guinea (V.L.); 3 ♂ and 8 ♀, Wareo (V.L.); 3 ♂ and 5 ♀, D. N. Guinea (V.L.); 1 ♂ and 2 ♀, Kalasa (V.L.); 1 ♀, Wamoro Mts., 750 m (V.L.); 1 ♂ and 3 ♀, Bolan Mts. (V.L.); 1 ♀, Finisterre Mts., Kombe distr. (V.L.); 1 ♀, Bongu (V.L.); 3 ♀, Simbang, leg. H. Rolle (V.L.); 1 ♀, Simbang (V.L.); 1 ♂ and 1 ♀, Astrolabe Bay, leg. Rhode (V.L.); 1 ♂ and 2 ♀, exact loc. unknown (V.L.); 1 ♀, Dutch New Guinea (?) (V.L.); 1 ♀, Terr. of Papua (?) (V.L.); 3 ♂ and 12 ♀, exact loc. unknown (ex coll. C. Dixon); 1 ♂, Terr. of New Guinea, Wareo (ex coll. C. Dixon); 1 ♂, Terr. of New Guinea (in coll. van Roon); 7 ♂ and 7 ♀, Ali Isl. (ex coll. Dr. H. J. Veth); 2 ♂, Ali Isl. (in coll. van Roon); 1 ♂ and 1 ♀, Bongu (in coll. van Roon); 1 ♂, Terr. of Papua (in coll. van

Roon); 1 ♀, New Guinea (in coll. van Roon); 2 ♀, loc. unknown (in coll. van Roon); 1 ♂ and 1 ♀, loc. unknown (ex coll. Bernet Kempers).

Zoöl. Museum Amsterdam: New Guinea: Terr. of New Guinea: 1 ♂, Sattelberg (ex coll. Drescher); 1 ♀, Sattelberg, leg. H. Rolle (ex coll. Drescher); 1 ♀, Wamoro Mts. (ex coll. Drescher); 2 ♂ and 6 ♀, exact loc. unknown (ex coll. Drescher).

Most of these specimens show a dark metallic violet or reddish violet colour, whereas the remaining ones have a repartition of the colour as found in many of the related species: metallic green with a more or less reddish, or light brown posterior part of the elytra, strongly resembling the closely related *L. astrolabae* Schürhoff. The Amsterdam specimens all show this last mentioned pattern.

Lomaptera (Lomaptera) astrolabae Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 3 ♂ and 2 ♀, Ali isl. (V.L.); 4 ♂ and 3 ♀, Dallmann Hb (V.L.); 2 ♀, Madang (= Friederich Wilhelmshafen), leg. H. Fruhstorfer; 1 ♂ and 1 ♀, Bongu; 1 ♀, no exact locality (ex coll. Dr. H. J. Veth); 1 ♀, no exact locality (ex coll. C. Dixon); 2 ♂, no exact locality (ex coll. van der Vaart); 2 ♂, no exact locality; 7 ♂ and 4 ♀, no exact locality (V.L.); 4 ♂ and 3 ♀, Astrolabe Bay, leg. Rhode (V.L.); 5 ♂ and 3 ♀, Stephansort (V.L.); 1 ♀, Stephansort, leg. H. Rolle (V.L.); 1 ♂, Stephansort, Astrolabe Bay, 1894, leg. Kunzmann (V.L.); 1 ♂, exact locality unknown (ex coll. K. J. W. Bernet Kempers).

Zoöl. Museum Amsterdam. — New Guinea: Terr. of New Guinea: 3 ♂ and 6 ♀ (ex coll. Drescher); 1 ♂ (ex coll. K. J. W. Bernet Kempers); 1 ♂, locality unknown: 1 ♂ and 1 ♀ (ex coll. Drescher).

Valck Lucassen identified the Amsterdam specimens with *L. soror* Kraatz but using his elaborate keys I cannot but come to *astrolabae* Schürhoff.

Lomaptera (Lomaptera) apicalis Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀ (paratypes), Northern Division, Mt Lamington, 1300', ix.1929, leg. C. T. MacNamara (V.L.); Terr. of New Guinea: 1 ♀, Sattelberg, Huon Gulf near Finschhafen, 26.iv.1911, leg. G. v. Wiedenfeld.

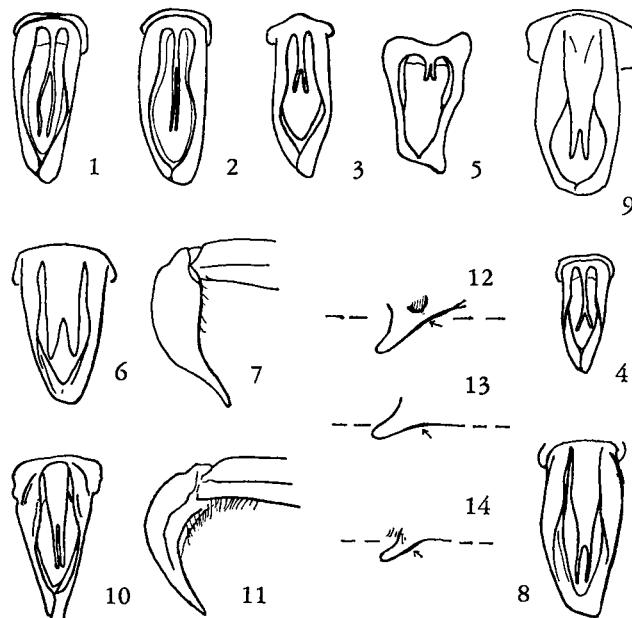
According to the label, Valck Lucassen received the third mentioned specimen from the Senckenberg Museum. This is the specimen he considered as an intermediate form between *L. soror* and *L. apicalis* (Valck Lucassen, 1961: 147, 149).

Lomaptera (Lomaptera) buergersi Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♀ (paratype), April riv., Kais. Augusta Fluss Exp. 17/18.x.1912, leg. S. G. Bürgers (V.L.).

Zoöl. Museum Amsterdam. — Locality unknown: 1 ♀ (ex coll. Drescher).

b 5. Species-group of *L. helleriana* Valck Lucassen.

Lomaptera helleriana Valck Lucassen. Leiden Museum. — New Guinea: Terr. of New Guinea: 2 ♂ and 2 ♀, Stephansort, Astrolabe Bay, 1894, leg. Kunzmann (V.L.); 5 ♂ and 1 ♀, Stephansort, leg. H. Rolle (V.L.); 1 ♂ and 2 ♀, Astrolabe Bay, leg. Rhode (V.L.); 7 ♂ and 3 ♀, exact loc. unknown (V.L.); 1 ♂ and 2 ♀, do. (in coll. van Roon); 1 ♀, Bongu (in coll. van Roon).



Figs. 1-5. *Lomaptera macrophylla* Gestro, forceps. 1, 2, 4, specimens from Araboe-bivak, from 27.x, 13.x, and 3.xi (small specimen), respectively; 3, after Valck Lucassen, 1961: fig. 84; 5, after Valck Lucassen, 1961: 276, fig. 4 (from Schürhoff). Figs. 6-8. *L. helleriana* Valck Lucassen, forceps of specimens from Ifar (8, dark specimen). Fig. 9. *L. xanthopyga* Gestro, forceps, specimen from "? Salawatti". Figs. 10-11. *L. papua* Gestro var. *rufovirens* Valck Lucassen, forceps, specimen from Misool. Figs. 12-14. Mesosternal process. 12, *L. macrophylla* Gestro; 13, *L. goliathensis* Valck Lucassen; 14, *L. varians* Schürhoff.

Zoöl. Museum Amsterdam. — New Guinea: Terr. of New Guinea: 2 ♂. 3 ♂ and 1 ♀, exact loc. unknown (ex coll. Drescher).

Lomaptera (*Lomaptera*) *helleriana* Valck Lucassen var. *pseudodichropus* Valck Lucassen (figs. 6-8). Leiden Museum. — New Guinea: 1 ♂ and 1 ♀ (holotype and allotype), Tami riv., Hollandia, 1930, leg. R. Voorhoeve (V.L.); 13 ♂ and 7 ♀ (paratypes), same locality, same lot (V.L.); 2 ♂ and 1 ♀ (paratypes), Humboldt Bay Distr., 1937, leg. W. Stüber (V.L.); 1 ♂,

Terr. of N. Guinea (V.L.); 1 ♀, Dutch New Guinea, Hollandia, 10.i.1950, leg. G. den Hoed; 2 ♀, Dojo 2 strip, Res. Hollandia, 1.xi.'56-16.iv.1957, leg. R. T. Simon Thomas; 3 ♂ and 3 ♀, Res. Hollandia, Kota Nica, 13.xi.1957-14.v.1958, leg. R. T. Simon Thomas; 2 ♂ and 1 ♀, Res. Hollandia, Ifar, 23.xii.1956, leg. R. T. Simon Thomas.

Zoöl. Museum Amsterdam. — New Guinea: 11 ♂ and 15 ♀ (paratypes), Hollandia, Tami riv., leg. R. Voorhoeve.

This form shows a strong variation, which is also shown in the newly identified material from the Hollandia district. The ♀ from the Dojo air strip, 16.iv.1957, is of a very dark blackish green bronze colour; tibiae, pygidium, and propygidium are red as well as patches left and right on the thorax and on the anterior half of the lateral borders. A reddish hue is found on the middle and posterior coxae. The second specimen from the same locality is green, and all yellow or reddish parts show a distinct greenish metallic gloss, except for the tibiae and tarsi. The Ifar specimens are different. The ♀, probably just emerged, is red all over with a greenish metallic hue on nearly all parts except tibiae, tarsi, and pygidium. One ♂ specimen (figs. 6-7) is dark green, the red parts are as usual, but the lateral red bands on the elytra are prolonged to the shoulders. The mesosternum is dark green like the upper surface of the thorax and the elytra. The other ♂ specimen (fig. 8) shows the same design, but it is purple instead of green. The six specimens from Kota Nica are all of the normal pattern of green and orange red, but some show red femora, others metallic green ones.

Lomaptera (Lomaptera) viridipes Moser. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♂; 1 ♀, leg. Möllenkampf; 1 ♂ and 1 ♀; 11 ♂ (V.L.); 1 ♂ and 1 ♀, Finschhafen (V.L.); 1 ♂ and 2 ♀ (V.L.); 3 ♂ and 1 ♀, Cape King William (V.L.); 1 ♂, Finisterre Mts.; 8 ♂ (ex coll. C. Dixon); 1 ♂ (in coll. van Roon); 3 ♂, Terr. of New Guinea (in coll. van Roon); 1 ♂ and 1 ♀, Terr. of Papua (in coll. van Roon). New Britain (= Neupommern): 2 ♂. Key Isl.: 1 ♂ (V.L.). Locality unknown: 2 ♂ and 1 ♀ (V.L.).

Zoöl. Museum Amsterdam. — New Guinea: 1 ♀; Terr. of New Guinea: 4 ♂, Sialum, Cape York (ex coll. Drescher). Australia: 1 ♂, Cape York (ex coll. Drescher). Locality unknown: 1 ♂ (ex coll. Drescher).

Though Valck Lucassen (1961: 155) studied all specimens in the Leiden collections he did not mention the specimens from New Britain, nor did he pay attention to the specimen from the Key islands in his own collection or to that from Cape York in the Amsterdam collection. I can but explain this by assuming that New Britain was considered as belonging to the environment of the Huon Gulf, and that the specimens from Key and Cape York are

probably bearing a wrong label. The combination: "Sialum, Cape York" on the labels supports this view.

Lomaptera (Lomaptera) viridipes Moser var. *flavocincta* Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♂ (paratype), Sialum (V.L.); 1 ♂ (paratype) (V.L.); 3 ♂ (V.L.).

Lomaptera (Lomaptera) elegans Valck Lucassen. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♂ and 1 ♀ (holotype and allotype) (V.L.); 1 ♂ (paratype), Finisterre Mts., Komba distr. (V.L.).

This last mentioned specimen from the Komba district appears to have been recorded twice in Valck Lucassen's monograph (1961: 156).

b 6. Species-group of *L. australis* Wallace.

Lomaptera (Lomaptera) australis Wallace. Leiden Museum. — Australia: 1 ♂, Cape York, leg. Frank; 1 ♂ (probably a paratype from coll. Parry in coll. Janson), Cape York (V.L.); 2 ♂ and 1 ♀, Lizard Isl., leg. Turner (V.L.).

Zoöl. Museum Amsterdam. — Australia: 1 ♂, Cape York, 1862 (N.A.M.); 1 ♂, Queensland, Coen riv., W. D. Dodd leg. (ex coll. Leefmans).

Lomaptera (Lomaptera) salvadorii Gestra. Leiden Museum. — New Guinea: Terr. of Papua: 2 ♀, leg. Ploos van Amstel; 1 ♂ and 1 ♀, Yule Isl., 1875, leg. M. D'Albertis; 1 ♂ and 1 ♀ (ex coll. Dr. H. J. Veth); 1 ♀; 1 ♂, Yule Isl.; 1 ♀, Yule Isl., leg. M. D'Albertis (V.L.); 7 ♂ and 6 ♀, Yule Isl. (V.L.); 1 ♀, Sogeri distr. (V.L.); 1 ♀ (V.L.); 1 ♀, Papua Gulf, leg. E. Weiske (V.L.); 3 ♂ and 1 ♀, Goldie riv., leg. A. Goldie (V.L.); 1 ♂, coll. Nonfried (V.L.); 1 ♂ and 1 ♀, Yule Isl. (in coll. van Roon).

Zoöl. Museum Amsterdam. — New Guinea: 1 ♀, "N.G. mer.", 1881 (van Lansberge don.) (N.A.M.). Locality unknown: 1 ♂ (J. R. H. Neervoort van de Poll don.).

Lomaptera (Lomaptera) salvadorii Gestro var. *viridula* Kraatz. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀, Goldie riv., leg. A. Goldie (V.L.); 1 ♂, Sogeri distr. (V.L.); 1 ♀, Sariba Isl., (V.L.); 1 ♂, "N. Holland" (V.L.); 1 ♂, Yule Isl. (V.L.).

Lomaptera (Lomaptera) salvadorii Gestro var. *metallescens* Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀ (holotype and allotype), Milne Bay (V.L.); 2 ♂ and 4 ♀ (paratypes), Milne Bay, 1898/99 (V.L.); 1 ♀ (paratype), Sogeri distr. (V.L.); 1 ♂ (paratype).

Lomaptera (Lomaptera) salvadorii Gestro subsp. *torresiana* Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀ (holotype and allotype), Murray Isl. (V.L.); 2 ♂ (paratypes), Murray Isl. (V.L.); 1 ♂ (paratype), 1 ♂ and 1 ♀, Darnley Isl. (V.L.).

Lomaptera (Lomaptera) continentalis Valck Lucassen. Leiden Museum. — Australia: 1 ♂ (holotype), Queensland, Cairns (V.L.); 1 ♂ (paratype), Queensland (V.L.); 1 ♀ (paratype), Queensland, Mein, 1904 (V.L.).

Lomaptera (Lomaptera) funebris Heller. Leiden Museum. — D'Entrecasteaux Islands: 5 ♂ and 4 ♀, Goodenough Isl. (V.L.); 1 ♀, Trobriand Isl. (= Kiriwimi) (V.L.); 4 ♂ and 3 ♀, Ferguson Isl. (V.L.); 1 ♀, Woodlark Isl. (V.L.).

Lomaptera (Lomaptera) funebris Heller subsp. *nigropilis* Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♀ (holotype), Hydrographer Mts., 2500', ii-iii.1918, leg. Eichhorn Bros (V.L.); 1 ♀ (paratype), Northern div., Mt Lamington, v.1927, leg. McNamara (V.L.).

Lomaptera (Lomaptera) rosselensis Valck Lucassen. Leiden Museum. — New Guinea: Louisiade Arch.: 1 ♂ and 1 ♀ (holotype and allotype), Rossel Isl., Mt Rossel, 2100', (V.L.); 1 ♂ and 3 ♀ (paratypes), same lot (V.L.); 1 ♂ and 8 ♀ (paratypes), Rossel Isl. (V.L.); 1 ♂ and 6 ♀ (paratypes), Rossel Isl., 2100', 1916 (V.L.).

c. Species-group of *L. aurata* Gestro.

Lomaptera (Lomaptera) aurata Gestro. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ (holotype), Tawan Isl., leg. D'Albertis (V.L.); 1 ♂, Port Moresby (ex coll. Dr. H. J. Veth); 1 ♀ (labelled: "Afrika, E. Heyne"); 1 ♂ and 5 ♀, Cornwallis Isl. (Torres str.) (V.L.); 2 ♂ and 2 ♀, Port Moresby (V.L.); 1 ♂ and 1 ♀, Murray Isl. (V.L.).

d. Species-group of *L. batchiana* J. Thomson.

Lomaptera (Lomaptera) batchiana J. Thomson. Leiden Museum. — Moluccas: 1 ♂ and 1 ♀, Batjan, leg. H. A. Bernstein; 1 ♂ and 2 ♀, S.-Halmahera, leg. H. A. Bernstein; 1 ♂, Halmahera; 1 ♂ and 1 ♀, Halmahera, leg. Br. (ex coll. Dr. H. J. Veth); 6 ♂ and 2 ♀, Batchian (V.L.); 1 ♂ and 1 ♀, leg. A. R. Wallace (V.L.); 1 ♂ and 1 ♀, Batchian, leg. Lindner (V.L.); 1 ♂ and 1 ♀, Halmahera (V.L.); 1 ♀, Obi Isl. (S. of Batchian) (V.L.); 30 ♂ and 12 ♀, Halmahera, Goa plains, 0-100 m, 12.ix.1951; 12 ♂ and 4 ♀, Halmahera, Akilamo, 50-100 m, 9-12.ix.1951, leg. native collector; 2 ♂ and 5 ♀, Halmahera, Mt Siu, 600-700 m, 27.ix.1951, leg. native collector; 3 ♀, Halmahera, Biaur, 600 m, 7-12.ix.1951, leg. native collector; 1 ♂ and 1 ♀, Halmahera, Tuguaer-Tasoa, 150 m, 12-25.x.1951, leg. native collector.

Zool. Museum Amsterdam. — Moluccas: 1 ♂, Batchian; 1 ♂ Halmahera (v. Lansberge don.) (N.A.M.); 1 ♀, Halmahera, Tobelo, leg. M. J. van Diejen.

When studying these fine series I found the species to be somewhat variable. There are specimens of varying size, and the colour is subject

to differences in intensity and gloss. The colour can be darker or somewhat lighter green, the gloss may be deep or more flat, but there are no morphological differences in the characters which are considered to be characteristic for the species viz., the sharp ridge between sternites and tergites, the punctuation of the posterior coxae which is visible in dorsal view, the pronotum with a distinct lateral border which reaches nearly to the basal angle, and the sharp margin of the epipleura of the elytra, accompanied by a thin "gutter". The ♀ pygidium shows a thin dorsal keel that ends into a triangular widening towards the hind border of the dorsal surface. The ventral surface is deeply excavated on both sides, but with a central thickening and a thin median keel.

Lomaptera (Lomaptera) kaestneri Schürhoff. Leiden Museum. — Moluccas: 1 ♀, Obi, Obi Lake, 160-260 m, leg. A. M. R. Wegner.

This specimen is the only representative of the species in the Leiden collections. Its measurements are: length, head included, 26 mm; without head, 22 mm; breadth at the shoulders, 13.2 mm. It fits in with Valck Lucassen's description (1961: 174-176).

Lomaptera (Lomaptera) pygidialis J. Thomson. Leiden Museum. — Moluccas: 3 ♂ and 2 ♀, Kaioa Isl. (V.L.); 1 ♀, Gilolo Isl. (V.L.).

Lomaptera (Lomaptera) mortiana Valck Lucassen. Leiden Museum. — Moluccas: 1 ♂ and 1 ♀ (holotype and allotype), and 1 ♀ (paratype), Morty Isl. (V.L.); 1 ♂ and 1 ♀ (paratypes), Gilolo Isl. (V.L.).

Lomaptera (Lomaptera) bernsteini Valck Lucassen. Leiden Museum. — Moluccas: 1 ♀ (holotype), Morotai, leg. H. A. Bernstein.

Lomaptera (Lomaptera) subarouensis J. Thomson. Leiden Museum. — Moluccas: 1 ♂ and 1 ♀, Gebeh, leg. H. A. Bernstein; 1 ♂, Gebeh (V.L.).

e. Species-group of *L. aciculata* Heller.

Lomaptera (Lomaptera) aciculata Heller. Leiden Museum. — Louisiade Archipelago: 5 ♂ and 5 ♀, St. Aignan (V.L.).

Lomaptera (Lomaptera) fulgida Moser. Leiden Museum. — Bismarck Arch.: 1 ♀ (cotype), New Ireland (V.L.); 1 ♂ and 1 ♀, New Ireland (V.L.).

Lomaptera (Lomaptera) helleri Moser. Leiden Museum. — Bismarck Arch.: 1 ♂ and 1 ♀, New Britain, Herbertshöhe (V.L.); 1 ♂ and 1 ♀, New Britain (V.L.); 1 ♂ and 1 ♀, New Britain, leg. Wahnes, Franklin, Müller (V.L.); 2 ♂, New Britain (in coll. van Roon). Terr. of New Guinea: 2 ♂ and 1 ♀, Sattelberg (V.L.).

Zoöl. Museum Amsterdam. — Bismarck Arch.: 1 ♂, New Britain.

Lomaptera (Lomaptera) pusilla Kraatz. Leiden Museum. — Aru Islands: 1 ♂ (holotype), Ureiuming, leg. C. Ribbe, 1884 (V.L.); 7 ♂ and 12 ♀

(V.L.); 3 ♂ and 4 ♀ (in coll. van Roon); 1 ♀; 5 ♂ and 2 ♀, leg. B. van Bodemeyer (ex coll. Dixon). New Guinea: 1 ♂, Jamoer lake, Goreda (135°1'E, 3°38'S), 7.vii.1954, leg. L. D. Brongersma.

Though the species has not yet been recorded from the mainland of New Guinea before, this locality does not occur to me as "strange". In my opinion this part of New Guinea is still terra incognita. If some day a better zoological exploration will be possible, a more extensive material may solve some of our problems about the area of distribution of a number of species.

In Valck Lucassen's 1961 monograph *L. pusilla* Kraatz is found on page 225 after *L. yorkensis* Valck Lucassen. In my opinion it is not related to that species. It should be placed after *L. helleri* Moser (page 189). In the "Index systematique", page 277, I already placed *pusilla* after *helleri*.

Lomaptera (Lomaptera) tuberculata Valck Lucassen. Zoöl. Museum Amsterdam. — New Guinea: 1 ♀ (holotype), S.-New Guinea, Beaufort riv., 13.xi.1912, leg. Versteeg (N.A.M.).

f. Species-group of *L. prasina* Kraatz.

Lomaptera (Lomaptera) prasina Kraatz. Leiden Museum. — Aru Islands: 1 ♂ (holotype), Ureuning, leg. C. Ribbe (V.L.); 4 ♂ and 6 ♀ (V.L.); 2 ♂, leg. H. Elgner (V.L.); 3 ♀ (in coll. van Roon). New Guinea: 2 ♀, South riv., leg. Hoessein, iii-iv.1910; 2 ♀; 2 ♂ (ex coll. C. Dixon). Darnley Isl.: 1 ♂.

The specimen from Darnley Island appears to be one of Moser's types of *L. imitatrix*. Except the locality label it bears two more labels: "*L. imitatrix* Mos. ex typis", and "ex coll. Moser". The name *imitatrix*, however, falls as a synonym of *prasina* Kraatz. My note on the distribution of *pusilla* can be applied on *prasina* too. We know too little about the fauna of the southern part of New Guinea.

Lomaptera (Lomaptera) pseudoprasina Valck Lucassen. Leiden Museum. — New Guinea: 1 ♂ (holotype), Doreh, Mansinam Isl., leg. Harmsen.

Though Valck Lucassen (1961: 193) gave the locality of the type to be Doreh, the label gives more information: Mansinam, a small island in the Doreh Bay. As the type is the only specimen known nothing can be said about the distribution of the species.

Lomaptera (Lomaptera) vanemdeni Schürhoff. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♀, Aroa riv. (V.L.); 1 ♀, Mt Victoria (V.L.); 4 ♂ and 3 ♀, Babooni (V.L.).

Lomaptera (Lomaptera) vanemdeni Schürhoff var. *nigritarsis* Schürhoff. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♀, Babooni, 3600', leg. A. E. Pratt, 1903.

This specimen was mentioned by Valck Lucassen in his monograph (1961: 197). Though the general habitus slightly differs from that of the type he indicated his specimen as *nigritarsis* Schürhoff as the tarsi are black all over.

Lomaptera (Lomaptera) uyttenboogaarti spec. nov. (figs. 15-21)

Leiden Museum. — New Guinea: 1 ♂ (holotype), Mandolo¹), res. Boven Digoel, 10.xi.1957, leg. R. T. Simon Thomas.

This species is closely related to *L. vanemdeni* Schürhoff from the Territory of Papua (Mt Astrolabe, Aroa Riv.).

General colour grass-green with a shade towards olive-green, less glossy than *vanemdeni*, with a reddish tinge (copper colour) especially in sidelight. Pubescence of the anterior coxae mixed reddish brown and blackish brown. The rows of setae along the inner border of the tibiae are reddish brown on the anterior legs and dark brown on the intermediate and posterior legs.

Except for the normal punctuation the head shows a minute secondary punctuation. The antennae are dark brown, except for the basal joint which is metallic green. The palps show a metallic green hue, but seen in reverse direction they are rusty brown.

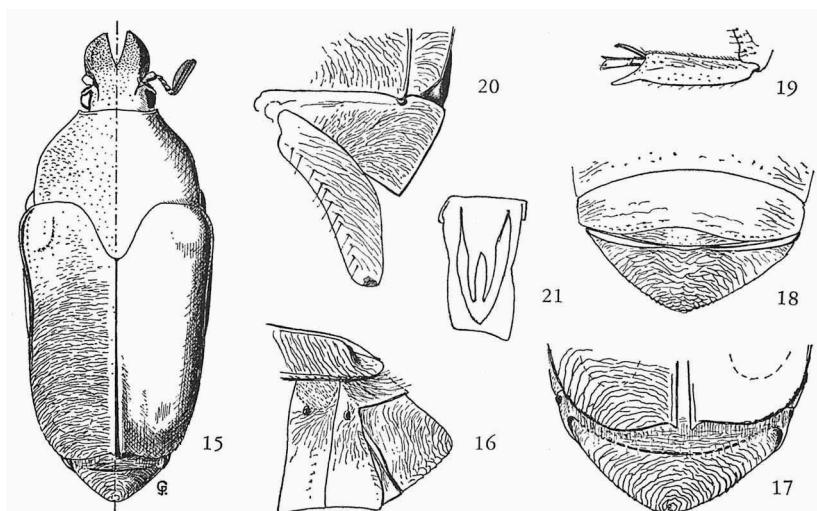
Pronotum: disk covered all over with a sharp, very fine punctuation. Towards the lateral borders the punctuation becomes coarser and turns into distinct striolation directed perpendicularly to the lateral borders, except near the anterior angles where only a rather strong punctuation is found, but intermingled with some striae. A thin medial line on the pronotum, and the borders of the scutellar lobe are almost devoid of punctuation.

The elytra are less glossy than the pronotum. At first view they are rather smooth, but on closer investigation the anterior part appears to be covered by a similar punctuation as found on the pronotal disk. The striolation begins between the scutellar lobe and the humeral hunch, increasing to about 1/4 from the elytral base, and then covering the rest of the elytral surface almost evenly, the apical hunch included. The suture remains free of striolation, showing only a few punctures in the basal half. The slightly protruding lateral border is clearly visible to about the 5th abdominal segment. Posteriorly the elytra are broadly rounded towards the sutural angle, forming an S-shaped curve there and ending into a short, rather broad thorn. The elytra do not show the two faint longitudinal elevations mentioned for *vanemdeni*.

The pygidium (figs. 16-18) is conical as normal in *Lomaptera*. The striolation is very similar to that of the elytra, only slightly finer in the anterior

¹) Mandolo is the name of the region between Tanah-Merah and Mindiptana.

(basal) corners. The ventro-anterior border of the pygidium shows a slight broadening in the middle. Both dorsal and ventral surfaces of the pygidium show a very faint median ridge. The propygidium is clearly visible, somewhat prolonged posteriorly, striolate in a similar way as the elytra and pygidium, the striolation nearly reaching the posterior border; the pubescence is whitish, not black like in *vanemdeni*. The posterior border of the anal segment is almost straight, broadly but faintly rounded caudally. This segment is faintly striolated towards the lateral borders.



Figs. 15-21. *Lomaptera wyttenboogaarti* spec. nov., male. 15, dorsal view; 16-18, caudal part of abdomen, in lateral, dorsal, and ventral view, respectively; 19, anterior left tibia; 20, posterior coxa and femur, and adjacent parts; 21, forceps.

The abdominal sternites show only a very thin striolation on the lateral parts, and some superficial striae reach towards the middle. On the first abdominal segment only the transverse striae are more distinct and more numerous. The 5th segment also shows more striae, but these are very thin and superficial. The posterior border of this segment is broadly but faintly excavated, and bears a distinct row of hair-bearing punctures, with white setae directed backwards.

The posterior coxae are striate all over except for the anterior border (fig. 20). The lateral borders are not indicated by an extra, sharp line. Basally the tibiae show the same colour as the rest of the insect, passing to grass-green and further into darker metallic green towards the apex. The tarsi show this last mentioned colour. The anterior tibiae bear one terminal

thorn only. The striations are shown in fig. 19. The longest end-spur of the hind tibiae is not longer than the combined length of the first and second tarsal joints.

A remarkable feature is the colour of all striolations, which is red (copper colour) in normal light.

The forceps is very similar to that of *L. vanemdeni*; the sides nearly parallel; slightly constricted in the middle; left paramere somewhat shorter than the right one; apex faintly concave. Like in *vanemdeni* the base of the small fork is rather broad, but it tapers in the basal half. The apical half consists of the teeth of the fork, which are much longer than in *vanemdeni*. The fork as a whole is more slender (fig. 21).

Compared to *vanemdeni* the insect is relatively shorter, the elytra less tapering. The abdominal sternites show only a very superficial medial furrow. The punctuation on the pronotum is more superficial. The elytra are devoid of the two longitudinal ridges. The colour is duller.

Measurements. — Total length, 26 mm; breadth at shoulders, 18 mm; length thorax + elytra, 23 mm.

I dedicate this species to the late Dr. D. L. Uyttenboogaart, who made the first translation of Valck Lucassen's manuscript into french, and who left the Uyttenboogaart-Eliasen Fund, a donation from which made the publication of the monograph possible.

Lomaptera (Lomaptera) mycterothalloides Van de Poll. Leiden Museum.
— New Guinea: 1 ♀ (holotype), Salawatti, leg. H. A. Bernstein.

g. Species-group of *L. gloriosa* Raffray.

Lomaptera (Lomaptera) gloriosa Raffray. Leiden Museum. — New Guinea: 2 ♂, Amberbaki (V.L.).

Lomaptera (Lomaptera) linae Gestro. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀, Babooni, 3600' (V.L.); 1 ♀, Mt Victoria (V.L.).

Lomaptera (Lomaptera) doreica Mohnike. Leiden Museum. — New Guinea: 1 ♂, Fakfak, leg. C. L. J. Palmer v. d. Broek; 1 ♀, Dorey (V.L.); 1 ♀, Sekroe, leg. K. Schäder, 1898 (V.L.); 3 ♂ and 5 ♀, Arfak Mts., Mt Serayu, 3500' (V.L.); 1 ♀, Manokwari, leg. J. C. Bauwens.

Zoöl. Museum Amsterdam. — New Guinea: 1 ♀, N-NG, between Mac Cluer Bay and Argoeni Bay, N-coast, leg. Baggelaar.

According to Valck Lucassen's descriptions and analysis (1961: 205-207) there is no doubt as to the identity of the present specimen from Manokwari. Even in minor details it fits in with those given in the keys and additional descriptions.

Lomaptera (Lomaptera) analoga Heller. Leiden Museum. — New Guinea: 2 ♂ (cotypes), leg. Strubell (V.L.); 1 ♀, Hatam, leg. E. St. Vraz, 1896 (V.L.); 2 ♂ (comp. with type), Dorey (V.L.).

Zoöl. Museum Amsterdam. — New Guinea: 1 ♂, Doreh.

h. Species-group of *L. humeralis* Van Lansberge.

Lomaptera (Lomaptera) humeralis Van Lansberge. Leiden Museum. — New Guinea: 1 ♂, Fakfak (V.L.).

Lomaptera (Lomaptera) mycterocephalus Heller. Leiden Museum. — New Guinea: 1 ♂ (ex coll. Dr. H. J. Veth); Terr. of New Guinea: 3 ♀, Sattelberg (1 specimen labelled: cotypes) (V.L.).

Lomaptera (Lomaptera) giesbersi Kraatz. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♂ and 1 ♀, Bongu; 1 ♂ (V.L.); 1 ♂ and 1 ♀, Constantinhafen (V.L.); 1 ♂ and 1 ♀, Bongu (V.L.).

Lomaptera (Lomaptera) gilnicki Kraatz. Leiden Museum. — Aru Islands: 1 ♂ and 1 ♀ (holotype and allotype), Ureiuning, leg. C. Ribbe (V.L.); 4 ♂ and 5 ♀ (paratypes), Wanumbai (V.L.). New Guinea: 1 ♂ (ex coll. Dr. H. J. Veth).

Lomaptera (Lomaptera) gilnicki Kraatz var. *podicalis* Moser. Leiden Museum. — New Guinea: 1 ♂, S-N. Guinea (V.L.); 1 ♀ (ex coll. Dr. H. J. Veth).

Lomaptera (Lomaptera) aroana Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ (holotype), Upper Aroa riv. (V.L.).

Lomaptera (Lomaptera) moseriana Burgeon. Leiden Museum. — New Guinea: 1 ♂ and 1 ♀, Snow Mts. (V.L.).

Lomaptera (Lomaptera) nigroplagiata Valck Lucassen. Leiden Museum. — New Guinea: 1 ♂ (holotype), Dutch New Guinea Exp. 1920, Idenburgriv., Prauwenbivak, ix, leg. W. C. van Heurn; 2 ♀, 3rd Ned.-Ind. Am. N. Guinea Exped., Bernhardkamp 50 m, vii-xi.1938, leg. J. Olthof.

Zoöl. Museum Amsterdam. — New Guinea: 1 ♀ (paratype), New Guinea Exp. 1904/5, Etna Bay (N.A.M.) (formerly identified with *L. fasciata* Moser, paratype).

This last mentioned specimen is the one Valck Lucassen referred to in foot-note no. 46 (1961: 218) in his monograph. I too cannot yet decide whether this is a separate form though there are differences with the types.

Lomaptera (Lomaptera) burgeoni Valck Lucassen. Leiden Museum. — New Guinea: 1 ♂ and 1 ♀ (holotype and allotype), Fakfak (V.L.); 2 ♂ (paratypes), Fakfak (V.L.); 1 ♀ (paratype), Andai (V.L.).

Zoöl. Museum Amsterdam. — New Guinea: 1 ♂ (paratype), between MacCluer Bay and Argoeni Bay, leg. Baggelaar.

i. Species-group of *L. pygmaea* Kraatz.

Lomaptera (Lomaptera) pygmaea Kraatz. Leiden Museum. — New Guinea: 1 ♀, leg. G. Kraatz; 1 ♂ (specimen figured by Migneaux, ex coll. Neervoort van de Poll) (V.L.); 4 ♂ and 3 ♀, Goldie riv., leg. A. Goldie (V.L.); 1 ♂ (V.L.).

Lomaptera (Lomaptera) yorkensis Valck Lucassen. Leiden Museum. — Australia: 1 ♂ (holotype), Queensland, Coen riv., leg. W. D. Dodd (V.L.); 1 ♀ (allotype), Queensland, Coen Distr., Cape York, leg. H. Hacker (V.L.); 1 ♂ (paratype), N. Queensland, leg.? Kelsall (V.L.).

Lomaptera (Lomaptera) ribbei Kraatz. Leiden Museum. — Aru Islands: 2 ♂ (holotype and paratype), Ureiuning, leg. C. Ribbe, 1884 (V.L.).

Lomaptera (Lomaptera) ribbei Kraatz var. *speciosa* Kraatz. Leiden Museum. — Aru Islands: 1 ♂ (labelled: type) and 1 ♀, Ureiuning, leg. C. Ribbe, 1884 (V.L.).

Lomaptera (Lomaptera) abdominalis Moser. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♀ (cotype), Sattelberg (V.L.); 2 ♂ and 3 ♀, Sattelberg (V.L.).

Lomaptera (Lomaptera) cupriceps Janson. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀ (holotype and allotype), Aroa riv., (V.L.).

Lomaptera (Lomaptera) sarayuana Valck Lucassen, Leiden Museum. — New Guinea: 1 ♂ and 1 ♀ (holotype and allotype), Arfak Mts., Mt Sarayu, 3500' (V.L.).

Lomaptera (Lomaptera) hyalina Moser. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♀, leg. W. Möllenkamp; 1 ♂ and 1 ♀, Cape King William (V.L.); 1 ♀, Huon Gulf (V.L.); 6 ♂ and 4 ♀, Kalasa (V.L.). Locality unknown: 1 ♂ (V.L.).

Zoöl. Museum Amsterdam. — New Guinea: Terr. of New Guinea: 1 ♂, W. of Huon Gulf.

Lomaptera (Lomaptera) queenslandiana Valck Lucassen. Leiden Museum. — Australia: 2 ♀ (holotype and paratype), North Queensland (V.L.).

k. Species-group of *L. macrophylla* Gestro.

Lomaptera (Lomaptera) macrophylla Gestro (figs. 1-5, 12). Leiden Museum. — New Guinea: 2 ♂, Central Arfak Mts., Warmasin Snoon (= female lake), 8000', leg. A. E. Pratt (V.L.); 1 ♀, Mt Goliath (V.L.); 1 ♂, Ned.-Ind. Am. N. Guinea Exped., Baliemkamp, 1700 m, 16-17.xi.1938, leg. L. J. Toxopeus; 1 ♀, Ned.-Ind. Am. N. Guinea Exped., Mistkamp, 1800 m, i.1939, leg. L. J. Toxopeus; K.N.A.G. N. Guinea Exped.: 18 ♂ and 12 ♀, Araboe-bivak, 12.x.1939-3.xi.1939; 3 ♂ and 2 ♀, Kema valley (valley of

the Kema boe) between Araboe riv. and Wandai, x-xi.1939, leg. Brouwer; 1 ♀, Paniai, x-xi.1939; 7 ♀, Digitara, x.1939, leg. P. J. Eyma and mantri Hoeke; 1 ♀, Egemendorp, x.1939, leg. P. J. Eyma; 1 ♂, Wisselmeren, Tigi lake, 18.i.1955, leg. L. D. Brongersma.

This fine species can easily be distinguished by the long antennal blades and the shape of the pygidium with faint lateral impressions forming a median elevation. Further the pronotum is generally of a glossy green colour, whereas the elytra generally show a reddish hue in newly hatched specimens turning into brownish, bluish or violet in older specimens. In addition to the above-mentioned specimens, the Leiden collection contains one specimen, labelled "S-N. Guinea".

Concerning the forceps of the ♂ there remains a problem. For that reason I figured some of the mounted forceps to compare them with the published figures. My fig. 3 was taken from Valck Lucassen (1961: 26, fig. 84), and fig. 5 from Schürhoff (Valck Lucassen, 1961: 276, fig. 4). In general appearance my figs. 1, 2 and 4 are in accordance with Valck Lucassen's drawing. The differences are found in the length of the small fork, showing variations in the total length, the length of the handle, and of the teeth, in various combinations, as already mentioned by Valck Lucassen. However, Schürhoff's figure is much different: broader, with a broad, strongly asymmetrical apex, more like Valck Lucassen's figures of *prasina*, *pseudoprasina*, *vanemdeni* or *viridis*, but with a very small fork (1961: 20, figs. 61-64). I am not sure that Schürhoff's figure really belongs to *macrophylla*.

Though the differences between *macrophylla*, *goliathensis* and *varians* are well indicated by Valck Lucassen, I feel justified to give additional figures (figs. 12, 13, and 14, respectively) of the mesosternal processus, which may be helpful for identification.

Lomaptera (Lomaptera) goliathensis Valck Lucassen (fig. 13). Leiden Museum. — New Guinea: 1 ♂ (holotype), Mt Goliath (V.L.); 1 ♀ (allotype), Mt Goliath (V.L.); 1 ♂ and 5 ♀ (paratypes), Mt Goliath, 57000', leg. A. S. Meek (V.L.); 4 ♂ and 3 ♀ (paratypes), Mt Goliath (V.L.); 1 ♀, S. New Guinea.

Zool. Museum Amsterdam. — New Guinea: 1 ♂ and 4 ♀ (paratypes), S.-N.G., leg. Versteeg, 20.xii.1912-28.ii.1913, Exp. 1912/1913 (N.A.M.) (formerly identified by Moser with *L. macrophylla* Gestro).

Lomaptera (Lomaptera) varians Schürhoff (fig. 14). Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♂ (paratype), Sattelberg (V.L.); 4 ♂ and 1 ♀, Sattelberg (V.L.); 2 ♂ and 2 ♀, Sattelberg, leg. Rev. L. Wagner (V.L.); 1 ♀, Ogelbeng (V.L.); 1 ♂ and 1 ♀ (V.L.); 1 ♀, DNG inland 1500' (V.L.); 2 ♂ Wareo, leg. Gassner, 1935; 2 ♂ (in coll. G. van Roon); 1 ♂,

Sattelberg (in coll. G. van Roon); 1 ♂, Rawlinson Range (V.L.); 1 ♂, G.N.G. (ex coll. Veth). Locality unknown: 1 ♂ (V.L.).

Zoöl. Museum Amsterdam. — New Guinea: Terr. of New Guinea: 1 ♂, Finschhafen.

l. Species-group of *L. nickerli* Schoch.

Lomaptera (Lomaptera) nickerli Schoch. Leiden Museum. — New Guinea: 1 ♂ and 2 ♀, Hatam, Arfak Mts. (V.L.); 1 ♂, Arfak Mts. (V.L.); 1 ♂, (cotype), Hatam, leg. E. St. Vraz (V.L.).

Lomaptera (Lomaptera) parvula Valck Lucassen. Leiden Museum. — New Guinea: 1 ♀ (holotype), Arfak Mts., Mt Sarayu, 3500' (V.L.).

Lomaptera (Lomaptera) pulchella Janson. Leiden Museum. — New Guinea: Terr. of Papua: 3 ♂ and 2 ♀ (holotype, allotype and paratypes), Babooni (V.L.).

Lomaptera (Lomaptera) pseudopulchella Valck Lucassen. Leiden Museum. — New Guinea: 2 ♀ (holotype and paratype), Snow Mts., 3000', leg. A. S. Meek (V.L.).

Lomaptera (Lomaptera) gracilis Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ (holotype), Angabunga riv., Owgarra dist., (V.L.).

Lomaptera (Lomaptera) saruwagedana Schürhoff var. *wareoana* Valck Lucassen. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♂ (holotype), Komba, leg. Rev. L. Wagner (V.L.); 1 ♀ (allotype), Wareo, 1933 (V.L.).

Lomaptera (Lomaptera) insularis Valck Lucassen. Leiden Museum. — D'Entrecasteaux Arch.: 1 ♂ and 1 ♀ (holotype and allotype), Goodenough Isl. (V.L.); 1 ♀ (paratype), Goodenough Isl.

Lomaptera (Lomaptera) insularis Valck Lucassen var. *lateralis* Valck Lucassen. Leiden Museum. — D'Entrecasteaux Arch.: 1 ♂ (holotype), Goodenough Isl. (V.L.).

Lomaptera (Lomaptera) foersteri Moser. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♀ (comp. with cotype) (V.L.).

Lomaptera (Lomaptera) lucidula Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 1 ♂ and 1 ♀ (holotype and allotype), Upper Aroa riv., leg. A. S. Meek (V.L.); 1 ♂ and 5 ♀ (paratypes), same lot (V.L.).

m. Species-group of *L. doriae* Gestro.

Lomaptera (Lomaptera) doriae Gestro. Leiden Museum. — New Guinea: 1 ♂ and 1 ♀, Hatam, leg. E. St. Vraz, 1896 (V.L.).

Lomaptera (Lomaptera) scheini Valck Lucassen. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♀ (holotype), Ogelbeng (V.L.).

Lomaptera (Lomaptera) prolongata Valck Lucassen. Leiden Museum. — New Guinea: Terr. of Papua: 2 ♂ (holotype and paratype), Upper Aroa riv. (V.L.); 2 ♂ (paratypes), Owgarra (V.L.); 2 ♂ (paratypes), Papu (V.L.).

Lomaptera (Lomaptera) corpulenta Valck Lucassen. Leiden Museum. — New Guinea: 4 ♀ (holotype and paratypes), Mt Goliath, leg. A. S. Meek, 1911 (V.L.).

Zoöl. Museum Amsterdam. — New Guinea: 1 ♀ (paratype), S-N.G., 12.xii.1912, Exp. Versteeg 1912/13 (N.A.M.).

Lomaptera (Lomaptera) concolor Schürhoff. Leiden Museum. — New Guinea: Terr. of New Guinea: 1 ♀ (paratype), Kais. Augusta Fl. Exp., Mt Hunstein, leg. S. G. Bürgers, 22.ii-14.iii.1913 (V.L.).

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